

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/01932

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 7/48
US CL : 703/10, 2; 702/13

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 703/10, 2; 702/11, 12, 13

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
IEEE Xplore, Inspec/DIALOG, WEST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,662,146 A (WATTS) 09 December 2003, see Entire Document	1-42
A	US 6,549,854 A (MALINVERNO et al) 15 April 2003, see Entire Document.	1-42
X	US 6,302,221 A (HAMMAN et al) 16 October 2001, column 6, line 61 through column 8, line 24.	26
A	US 6,106,561 A (FARMER) 22 August 2000, see Entire Document	1-42
A	US 5,757,663 A (LO et al) 26 May 1998, see Entire Document	1-42
A	US 5,835,883 A (NEFF et al) 10 November 1998, see Entire Document	1-42
A	MOTTI et al., V. Pattern Recognition in Spatial Data: A New Method of Seismic Explorations for Oil and Gas in Crystalline Basement Rocks, IEEE 15th International Conference on Pattern Recognition, Sep. 2000, pages 315-8	1-42

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

31 May 2005 (31.05.2005)

Date of mailing of the international search report

07 JUN 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Russell Frejd

Telephone No. 571.272.3779

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/01932

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KIM et al., J.G. Toward a Grid-Based Simulation of Multiphase Fluid Flow in Porous Media, IEEE 18th International Parallel and Distributed Processing Symposium, April 2004, page 274.	1-42
A	GRUCHALLA, K. Immersive Well-Path Editing: Investigating the Added Value of Immersion, IEEE, Virtual Reality, March 2004, pages 157-64).	1-42